## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start		Rating **	Α	Issue No.		3		
LM End		Issue Type +	Ма	Location *				
Category Earthen Levee			GPS Latitude/Longitude					
Calegory	Calegory					End		
Item	s & Maintenaı	nce		0		0		
пеш	Manuals			0		0		
DWR ID	DWR ID DWR_RD2098_01_f _ 2014_3							
		Comn	nent Cod	le				
		Inspecto	or Comm	nent				
RD 2098 H	las on file	O+M Manual.						

No Photos

LM Start		Rating **	Α	Issue No.		4	
LM End		Issue Type +	Ma	Location *			
Category	evee	GPS La	atituc	le/Longitude			
Category	Category					End	
ltom	Emergency Supplies &				0		0
пеш	Equipment				0		0
DWR ID	DWR_RD2	098_01_f _ 201	4_4				
		Comn	nent Cod	le			
Inspector Comment							
RD 2098 Has Emergency Supplies in storage along with Equipment.							

No Photos

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start		Rating **	Α	Issue No.		5	
LM End		Issue Type +	Ма	Location *			
Category	Earthen Levee				atitud	le/Longitude	
Calegory				Start		End	
Item	Flood Pre	lood Preparedness & Training			0		0
пеш					0		0
DWR ID	DWR_RD2	098_01_f _ 201	4_5				
		Comn	nent Coo	le			
		Inspecto	or Comm	ent			
RD 2098 H	las their te	am well prepa	ared for I	Flood Fight.			

No Photos

LM Start	0.57	Rating **	М	Issue No.		13
LM End	1.06	Issue Type +	Ma	Location *		WS
Category	evee		GPS Latitude/Longitude			
Calegory				Start		End
Item	Erosion /		38.3207	'55 °	38.313700 °	
пеш				-121.6939	82°	-121.693639 °
DWR ID DWR_RD2098_01_s _ 2017_13						
		Comn	nent Cod	de		
E2 : Sche	dule repair	of erosion site	e prior to	the next in	spec	tion.
		Inspecto	or Comm	nent		

## Photo 1 of 1: SP\_2018\_RD2098\_244\_13\_20180315\_00087.jpg



Moniter and repair erosion on waterside.

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start	0.96	Rating **	A/W	Issue No.		19	
LM End	0.96	Issue Type +	Ma	Location *			
Category	Supplemental				GPS Latitude/Longitude		
Calegory	ategory					End	
Item	2017 Stor	m Damage		38.3152	00 °	38.315100°	
пеш				-121.6941	00 °	-121.694100 °	
DWR ID DWR_RD2098_01_s _ 2018_19							
	Comment Code						

## Inspector Comment

Levee Evaluation Comments

Description: The damage consists of cracking and sloughing of the

lower landside levee slope.

Site ID No:414

Site Designation:LMA-241 Repair Type: Erosion Rating:Area of Concern Field Date:7/24/2017

Notes: Landside sloughing about 2' deep and extends to toe ditch.

LM Start	0.96	Rating **	A/W	Issue No.	19 (cont)
LM End	0.96	Issue Type +	Ma	Location *	



Photo 2 of 3: LEVAL\_SP\_2018\_414\_3596.jpg



N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start	0.96	Rating **	A/W	Issue No.		19 (cont)	
LM End	0.96	Issue Type +	Ma	Location *			
Category	ental	GPS Latitude/Longitude					
Calegory			Start		End		
Item	2017 Stor	m Damage		38.3152	00°	38.315100°	
пеш				-121.6941	00°	-121.694100 °	
DWR ID DWR_RD2098_01_s _ 2018_19							
	Comment Code						

## Inspector Comment

Levee Evaluation Comments

Description: The damage consists of cracking and sloughing of the

lower landside levee slope.

Site ID No:414
Site Designation:LMA-241
Repair Type: Erosion
Rating:Area of Concern
Field Date:7/24/2017

Notes: Landside sloughing about 2' deep and extends to toe ditch.



LM Start	1.55	Rating **	М	Issue No.		14
LM End	1.55	Issue Type +	Ма	Location *		LS
Category	Earthen L		GPS Latitude/Longitude			
Calegory				Start		End
Item	Trim / Thi	n Trees		38.3066	28°	38.306628°
item				-121.6936	32°	-121.693632 °
DWR ID	DWR_RD2098_01_s _ 2018_14					

Comment Code
T1 : Trim trees to at least five feet above ground level.

#### Inspector Comment

Trim and thin trees to allow inspection and access to landside slope and toe. Also, remove fallen tree on landside slope.

## Photo 1 of 1: SP\_2018\_RD2098\_244\_14\_20180315\_00088.jpg



Remove fallen tree and trim remaining trees.

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start	1.57	Rating **	С	Issue No.		15			
LM End	1.91	Issue Type +	Ma	Location *	CR				
Earthen Levee				GPS La	atitud	e/Longitude			
Category				Start		End			
Item		rface / Depres	ssions /	38.3063	88°	38.301405 °			
пеш	Rutting			-121.6935	73 °	-121.693620 °			
DWR ID	DWR_RD2	098_01_s _ 201	7_15						
		Comn	nent Coo	le					
C2 : Repai	r depressi	ons or ruts in	the crow	n or slope.					
		Inspect	or Comm	nent					
Gravel sur	Gravel surface is stabile and smooth.								

No Photos

LM Start	1.76	Rating **	М	Issue No.		18
LM End	1.76	Issue Type +	Ма	Location *		WS
Category Earthen Levee				GPS La	atitud	e/Longitude
Calegory			Start		End	
Item	Erosion / Bank Caving			38.303611°		38.303611 °
item				-121.6936	07°	-121.693607 °
DWR ID	DWR_RD2	098_01_s _ 201	8_18			
		Comn	nent Cod	le		
E2 : Schedule repair of erosion site prior to the next inspection.						

Inspector Comment

Photo 1 of 1: SP\_2018\_RD2098\_244\_18\_20180315\_00089.jpg

Monitor and repair erosion.

LM Start	1.79	Rating **	С	Issue No.	16		
LM End	3.59	Issue Type +	Ma	Location *	CR		
Category Earthen Levee			GPS Latitude/Longitude				
Calegory	Category		Start		End		
Item	Vegetatio	n		38.3031	27°	38.277510	0
пеш			-121.6936	15 °	-121.696247	0	
DWR ID DWR_RD2098_01_s _ 2017_16							
	0						

Comment Code

V9 : Keep the crown roadway free of vegetation.

Inspector Comment

Crown is free of vegetation.

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start	2.21	Rating **	A/W	Issue No.	21		
LM End	2.22	Issue Type +	Ma	Location *			
Category				GPS Latitude/Longitude			
Calegory		Start		End			
Item	2017 Stor	m Damage		38.29710	o°	38.297000°	
пеш				-121.69330	°	-121.693300 °	
DWR ID DWR_RD2098_01_s _ 2018_21							
	Comment Code						

## Inspector Comment

Levee Evaluation Comments

Description:The damage consists of erosion, cracking, and sloughing of the waterside levee slope.

Site ID No:416

Site Designation:LMA-243

Repair Type: Erosion

Rating:Serious

Field Date:7/24/2017

Notes: Erosion with sloughing. About 2' vertical cut at top of erosion.

LM Start	2.21	Rating **	A/W	Issue No.	21 (cont)
LM End	2.22	Issue Type +	Ma	Location *	



Photo 2 of 3: LEVAL\_SP\_2018\_416\_2727.jpg



N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start	2.21	Rating **	A/W	Issue No.		21 (cont)		
LM End	2.22	Issue Type +	Ma	Location *				
Catagory	Supplemental				GPS Latitude/Longitude			
Calegory	egory		Start		End			
Item	2017 Stor	m Damage		38.2971	00°	38.297000	0	
пеш		-		-121.6933	00°	-121.693300	0	
DWR ID	DWR_RD2	098_01_s _ 201	8_21					
	Comment Code							

## Inspector Comment

Levee Evaluation Comments

Description: The damage consists of erosion, cracking, and sloughing of

the waterside levee slope.

Site ID No:416

Site Designation:LMA-243 Repair Type: Erosion

Rating:Serious Field Date:7/24/2017

Notes: Erosion with sloughing. About 2' vertical cut at top of erosion.



LM Start	2.29	Rating **	A/W	Issue No.	27				
LM End	2.31	Issue Type +	Ма	Location *					
Category	Supplemental				GPS Latitude/Longitude				
Calegory			Start		End				
Item	2017 Stor	m Damage		38.2959	° 00	38.295700°			
item				-121.6935	00°	-121.693500°			
DWR ID	D DWR_RD2098_01_f _ 2017_27								
	Comment Code								

## Inspector Comment

Levee Evaluation Comments

Description: The damage consists of scour and sloughing of the

waterside levee slope.

Site ID No:421

Site Designation:LMA-248

Repair Type: Erosion

Rating:Serious

Field Date:7/24/2017

Notes: Toe of slope has eroded and minor sloughing has started.

10/26/17: Dutra repairs in progress.





N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start	2.29	Rating **	A/W	Issue No.		27 (cont)	
LM End	2.31	Issue Type +	Ma	Location *			
Category	Suppleme	GPS Latitude/Longitude					
Calegory				Start		End	
Item	2017 Stor	2017 Storm Damage			00°	38.295700°	
пеш				-121.6935	00°	-121.693500 °	
DWR ID	DWR ID DWR_RD2098_01_f _ 2017_27						
	Comment Code						

## Inspector Comment

Levee Evaluation Comments

Description: The damage consists of scour and sloughing of the

waterside levee slope.

Site ID No:421

Site Designation:LMA-248

Repair Type: Erosion

Rating:Serious

Field Date:7/24/2017

Notes: Toe of slope has eroded and minor sloughing has started.

10/26/17: Dutra repairs in progress.

LM Start	2.29	Rating **	A/W	Issue No.	27 (cont)
LM End	2.31	Issue Type +	Ma	Location *	



Photo 3 of 3 : SP\_2018\_RD2098\_244\_27\_20180305\_00020.jpg



N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start	2.30	Rating **	A/W	Issue No.		20
LM End	2.32	Issue Type +	Ma	Location *		WS
Category Earthen Levee				GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Erosion / Bank Caving			38.2958	870°	38.295430°
пеш				-121.6936	645 °	-121.693628°
DWR ID DWR_RD2098_01_s _ 2017_20						
		Comn	nent Cod	le		
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spec	ction.
		Inspecto	or Comm	nent		
Repair the	erosion si	te listed.				

No Photos

LM Start	2.35	Rating **	М	Issue No.		28
LM End	2.39	Issue Type +	Ма	Location *		
Category			GPS La	e/Longitude		
Calegory		S		Start		End
Item	2017 Storm Damage			38.2951	00°	38.294500 °
пеш				-121.6934	00°	-121.693400 °
DWR ID	DWR_RD2	098_01_f _ 201	7_28			
Comment Code						

# Inspector Comment

Levee Evaluation Comments

Description: The damage consists of scour, sloughing, and cracking of the lower and mid waterside levee slope.

Site ID No:423

Site Designation:LMA-250 Repair Type: Erosion Rating:Area of Concern Field Date:7/24/2017

Notes: 2' of sloughing about half way up the slope.

Photo 1 of 3: SP\_2018\_RD2098\_244\_28\_20180305\_00021.jpg



N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start	2.35	Rating **	М	Issue No.	28 (cont)		
LM End	2.39	Issue Type +	Ma	Location *			
Category	Suppleme	ental		GPS Latitude/Longitude			
Calegory				Start		End	
Item	2017 Stor	2017 Storm Damage			00°	38.294500°	
пеш				-121.69340	00°	-121.693400 °	
DWR ID DWR_RD2098_01_f _ 2017_28							
	Comment Code						

## Inspector Comment

Levee Evaluation Comments

Description: The damage consists of scour, sloughing, and cracking of the lower and mid waterside levee slope.

Site ID No:423

Site Designation:LMA-250 Repair Type: Erosion Rating:Area of Concern Field Date:7/24/2017

Notes: 2' of sloughing about half way up the slope.

LM Start	2.35	Rating **	M	Issue No.	28 (cont)
I M End	2.39	Issue Type +	Ma	Location *	



Photo 3 of 3: SP\_2018\_RD2098\_244\_28\_20180305\_00023.jpg



N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start	2.75	Rating **	A/W	Issue No.	34		
LM End	2.78	Issue Type +	Ма	Location *			
Category				GPS Latitude/Longitude			
Calegory	Category			Start		End	
Item	2017 Stor	2017 Storm Damage			00°	38.288800 °	
пеш				-121.69350	Latitude/Longitud	-121.693500 °	
DWR ID	DWR_RD2098_01_f _ 2017_34						
	Comment Code						

## Inspector Comment

Levee Evaluation Comments

Description: The damage consists of scour and sloughing of the

waterside levee slope.

Site ID No:429

Site Designation:LMA-256

Repair Type: Erosion

Rating:Serious

Field Date:7/25/2017

Notes: Erosion at WS toe, causing sloughing half-way down WS slope.

10/26/17: Dutra repairs in progress.

LM Start	2.75	Rating **	A/W	Issue No.	34 (cont)
LM End	2.78	Issue Type +	Ma	Location *	



Photo 2 of 3: SP\_2018\_RD2098\_244\_34\_20180305\_00037.jpg



N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start	2.75	Rating **	A/W	Issue No.		34 (cont)	
LM End	2.78	Issue Type +	Ma	Location *			
Supplemental				GPS Latitude/Longitude			
Category				Start		End	
ltom	2017 Stor	m Damage		38.2892	00°	38.288800 °	
Item				-121.693500 °		-121.693500 °	
DWR ID DWR_RD2098_01_f _ 2017_34							
Comment Code							

## Inspector Comment

Levee Evaluation Comments

Description: The damage consists of scour and sloughing of the

waterside levee slope.

Site ID No:429

Site Designation:LMA-256

Repair Type: Erosion Rating:Serious Field Date:7/25/2017

Notes: Erosion at WS toe, causing sloughing half-way down WS slope.

10/26/17: Dutra repairs in progress.



LM Start	2.78	Rating **	A/W	Issue No.		35		
LM End	2.81	Issue Type +	Ma	Location *				
Category	Supplemental			GPS Latitude/Longitude				
Calegory			Start		End			
Item	2017 Storm Damage			38.2888	00°	38.288400 °		
item				-121.693500 °		-121.693500 °		
DWR ID	R ID DWR_RD2098_01_f _ 2017_35							
Comment Code								

## Inspector Comment

Levee Evaluation Comments

Description: The damage consists of scour and sloughing of the

waterside levee slope.

Site ID No:430

Site Designation:LMA-257

Repair Type: Erosion

Rating:Serious

Field Date:7/25/2017

Notes: Erosion at waterside toe, causing sloughing 2/3 down waterside

slope.10/26/17: Dutra repairs in progress.



Location		1
LS: Land Side	N/A: Not Applicable	1
WS: Water Side		l N
CD . Crause		

A : Acceptable
M : Minimally Acceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start	2.78	Rating **	A/W	Issue No.	35 (cont)		
LM End	2.81	Issue Type +	Ма	Location *			
Supplemental				GPS Latitude/Longitude			
Category			Start		End		
ltom	2017 Stor	m Damage		38.2888	00°	38.288400 °	
Item				-121.6935	00°	-121.693500 °	
DWR ID	WR ID DWR_RD2098_01_f _ 2017_35						
Comment Code							

## Inspector Comment

A/W

Ма

Location \*

Levee Evaluation Comments

Description: The damage consists of scour and sloughing of the

waterside levee slope.

Site ID No:430

LM Start

LM End

Site Designation:LMA-257

2.78

2.81

Repair Type: Erosion

Rating:Serious Field Date:7/25/2017

Notes: Erosion at waterside toe, causing sle

Rating \*\*

Issue Type +

slope.10/26/17: Dutra repairs in progress.

loughing 2/3	3 down waterside	
Issue No.	35 (cont)	Photo 3 of 3 : SP 2018 RD209

35 (cont)



Photo 2 of 3: SP\_2018\_RD2098\_244\_35\_20180305\_00040.jpg

Location LS : Land Side N/A: Not Applicable WS: Water Side

CR : Crown

Rating A: Acceptable : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start	2.80	Rating **	М	Issue No.		11	
LM End	2.97	Issue Type +	Ма	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory			Start		End		
Item	Vegetatio	n		38.28859	0°	38.286013 °	
пеш				-121.69364	5 °	-121.693632 °	
DWR ID	DWR_RD2098_01_f _ 2017_11						
Comment Code							

V2: Remove the wild growth other than native grasses from the levee slopes.

#### Inspector Comment

Nearby construction opertions forced termination of goat grazing. Vegetation should be cleared.



Nearby construction opertions forced termination of goat grazing. Vegetation should be cleared.

LM Start	2.80	Rating **	М	Issue No.		12	
LM End	3.60	Issue Type +	Ma	Location *		LS	
Catagonia Earthen Levee				GPS Latitude/Longitude			
Calegory	Category			Start		End	
Item	Vegetatio	n		38.288590 ° 38.27745			
item				-121.6936	45 °	-121.696303 °	
DWR ID	DWR_RD2098_01_f _ 2017_12						

## Comment Code

V2: Remove the wild growth other than native grasses from the levee slopes.

### Inspector Comment

Nearby construction opertions forced termination of goat grazing. Vegetation should be cleared.

## Photo 1 of 1: SP\_2018\_RD2098\_244\_12\_20180305\_00002.jpg



Nearby construction opertions forced termination of goat grazing. Vegetation should be cleared.

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain Issue Type

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start	2.91	Rating **	A/W	Issue No.		36	
LM End	2.93	Issue Type +	Ma	Location *			
Category				GPS Latitude/Longitude			
Calegory			Start		End		
Itom	2017 Stor	m Damage		38.2869	00°	38.286700 °	
Item				-121.6935	00°	-121.693500 °	
DWR ID	ID DWR_RD2098_01_f _ 2017_36						
Comment Code							

## Inspector Comment

Levee Evaluation Comments

Description: The damage consists of scour and sloughing of the

waterside levee slope.

Site ID No:431

Site Designation:LMA-258

Repair Type: Erosion

Rating:Serious

Field Date:7/25/2017

Notes: Erosion of WS toe, resulting in 8' verticle wall. 10/26/17: Dutra

repairs in progress.

LM Start	2.91	Rating **	A/W	Issue No.	36 (cont)
LM End	2.93	Issue Type +	Ma	Location *	



Photo 2 of 3 : SP\_2018\_RD2098\_244\_36\_20180305\_00043.jpg



N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start	2.91	Rating **	A/W	Issue No.	36 (cont)				
LM End	2.93	Issue Type +	Ma	Location *					
Category				GPS Latitude/Longitude					
Calegory			Start		End				
Itom	2017 Storm Damage			38.2869	00°	38.286700°			
Item				-121.69350	00°	-121.693500°			
DWR ID DWR_RD2098_01_f _ 2017_36									
	Comment Code								

#### Inspector Comment

Levee Evaluation Comments

Description:The damage consists of scour and sloughing of the

waterside levee slope.

Site ID No:431

Site Designation:LMA-258

Repair Type: Erosion Rating:Serious Field Date:7/25/2017

Notes: Erosion of WS toe, resulting in 8' verticle wall. 10/26/17: Dutra

repairs in progress.



LM Start	2.99	Rating **	A/W	Issue No.		37	
LM End	3.29	Issue Type +	Ма	Location *			
Category Supplemental				GPS Latitude/Longitude			
Calegory			Start		End		
Item	2017 Storm Damage			38.2857	00°	38.281500°	
пеш			-121.693500 °		-121.694300°		
DWR ID DWR_RD2098_01_f _ 2017_37							
Comment Code							

## Inspector Comment

Levee Evaluation Comments

Description: The damage consists of scour and sloughing of the

waterside levee slope.

Site ID No:432

Site Designation:LMA-259

Repair Type: Erosion

Rating:Serious

\* Location

Field Date:7/25/2017

Notes: Varying erosion and sloughing at WS toe. Revetment at end of

levee section. 10/26/17: Dutra repairs in progress.



LS: Land Side	N/A: Not Applicable
WS: Water Side	

A : Acceptable
M : Minimally Acceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start	2.99	Rating **	A/W	Issue No.	37 (cont)			
LM End	3.29	Issue Type +	Ma	Location *				
Category				GPS Latitude/Longitude				
Category			Start		End			
Itom	2017 Storm Damage			38.2857	00°	38.281500°		
Item				-121.6935	00°	-121.694300 °		
DWR ID DWR_RD2098_01_f _ 2017_37								
	Comment Code							

## Inspector Comment

A/W

Ma

Levee Evaluation Comments

Description: The damage consists of scour and sloughing of the

waterside levee slope.

Site ID No:432

Site Designation:LMA-259

2.99

3.29

Repair Type: Erosion

Rating:Serious Field Date:7/25/2017

LM Start

LM End

Notes: Varying erosion and sloughing at WS toe. Revetment at end of

Rating \*\*

Issue Type +

levee section. 10/26/17: Dutra repairs in progress.

	Ways.		
			W.A.
b		- AM1046 A	1/95/2017

Photo 2 of 3: SP\_2018\_RD2098\_244\_37\_20180305\_00046.jpg

# Issue No. 37 (cont) Location \*

Photo 3 of 3: SP\_2018\_RD2098\_244\_37\_20180305\_00047.jpg



N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start	3.15	Rating **	М	Issue No.		38		
LM End	3.15	Issue Type +	Ma	Location *				
Category				GPS Latitude/Longitude				
Calegory			Start		End			
Item	2017 Storm Damage				72 °	38.283472 °		
пеш				-121.693600 °		-121.693600 °		
DWR ID DWR_RD2098_01_f _ 2017_38								
	Comment Code							

## Inspector Comment

Levee Evaluation Comments

Description: Site ID No:115

Site Designation: DWR\_RD2098\_01\_s\_2012\_12

Repair Type: Erosion Rating:Critical Field Date:6/9/2017

Notes: noticable sloughing along Wsslope for entire levee reach

10/26/17: Dutra has repaired erosion at 3.12-3.14.

LM Start	3.15	Rating **	М	Issue No.	38 (cont)
LM End	3.15	Issue Type +	Ma	Location *	



Photo 2 of 3: SP\_2018\_RD2098\_244\_38\_20180305\_00049.jpg



## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start	3.15	Rating **	М	Issue No.	38 (cont)	
LM End	3.15	Issue Type +	Ма	Location *		
Category	Supplemental			GPS Latitude/Longitude		
Category			Start		End	
Itom	2017 Storm Damage			38.2834	72 °	38.283472°
Item			-121.693600 °		-121.693600 °	
DWR ID DWR_RD2098_01_f _ 2017_38						
Comment Code						

## Inspector Comment

Levee Evaluation Comments

Description: Site ID No:115

Site Designation: DWR\_RD2098\_01\_s\_2012\_12

Repair Type: Erosion Rating:Critical Field Date:6/9/2017

Notes: noticable sloughing along Wsslope for entire levee reach

10/26/17: Dutra has repaired erosion at 3.12-3.14.



LM Start	3.18	Rating **	M	Issue No.		17		
LM End	3.60	Issue Type +	Ma	Location *		WS		
Category Earthen Levee				GPS Latitude/Longitude				
Category				Start		End		
Item	Vegetatio	n		38.2830	35°	38.277458	0	
item				-121.6936	17°	-121.696303	0	
DWR ID	DWR_RD2	098_01_f _ 201						
Comment Code								

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

No Photos

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start	3.31	Rating **	A/W	Issue No. 39			
LM End	3.32	Issue Type +	Ma	Location *			
Category				GPS Latitude/Longitude			
Calegory	egory					End	
Item	2017 Stor	m Damage		38.28120	00°	38.281100°	
пеш				-121.69450	00°	-121.694600 °	
DWR ID DWR_RD2098_01_f _ 2017_39							
	Comment Code						

## Inspector Comment

Levee Evaluation Comments

Description: The damage consists of scour and sloughing of the lower waterside levee slope.

Site ID No:433

Site Designation:LMA-260 Repair Type: Erosion Rating:Area of Concern Field Date:7/25/2017

Notes: Two combined erosion sites (260 and 261) adjacent to each other at WS toe. Existing rip rap placed at area of concern.

LM Start	3.31	Rating **	A/W	Issue No.	39 (cont)
LM End	3.32	Issue Type +	Ma	Location *	



Photo 2 of 3 : SP\_2018\_RD2098\_244\_39\_20180305\_00052.jpg



N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start	3.31	Rating **	A/W	Issue No.	39 (cont)		
LM End	3.32	Issue Type +	Ma	Location *			
Category	ental	GPS Latitude/Longitude					
Calegory	Calegory					End	
Item	2017 Stor	m Damage		38.2812	00°	38.281100°	
пеш				-121.6945	00°	-121.694600 °	
DWR ID DWR_RD2098_01_f _ 2017_39							
	Comment Code						

#### Inspector Comment

Levee Evaluation Comments

Description: The damage consists of scour and sloughing of the lower waterside levee slope.

Site ID No:433

Site Designation:LMA-260 Repair Type: Erosion Rating:Area of Concern Field Date:7/25/2017

Notes: Two combined erosion sites (260 and 261) adjacent to each other at WS toe. Existing rip rap placed at area of concern.



LM Start	3.50	Rating **	М	Issue No.	No. 40		
LM End	3.56	Issue Type +	Ма	Location *			
Category				GPS La	atitud	le/Longitude	
Calegory				End			
Item	2017 Stor	m Damage		38.2787	00°	38.278000	0
item				-121.6959	00°	-121.696100	0
DWR ID DWR_RD2098_01_f _ 2017_40							
Comment Code							

## Inspector Comment

Levee Evaluation Comments

Description: The damage consists of scour and sloughing of the lower and mid waterside levee slope.

Site ID No:435

Site Designation:LMA-262

Repair Type: Erosion

Rating:Area of Concern

Field Date:7/25/2017

Notes: Two combined sloughing sites adjacent to each other on lower waterside slope. Existing rip rap on beginning 100' section of site 262. This site is combined with site 263.

## Photo 1 of 3: SP\_2018\_RD2098\_244\_40\_20180305\_00054.jpg



N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	03/15/2018 03/15/2018	Keith Millard

LM Start	3.50	Rating **	М	Issue No.	40 (cont)		
LM End	3.56	Issue Type +	Ma	Location *			
Supplemental				GPS Latitude/Longitude			
Calegory	Category					End	
Item	2017 Stor	m Damage		38.2787	00°	38.278000 °	
пеш				-121.6959	00°	-121.696100 °	
DWR ID DWR_RD2098_01_f _ 2017_40							
	Comment Code						

## Inspector Comment

Levee Evaluation Comments

Description:The damage consists of scour and sloughing of the lower and mid waterside levee slope.

Site ID No:435

Site Designation:LMA-262 Repair Type: Erosion Rating:Area of Concern Field Date:7/25/2017

Notes: Two combined sloughing sites adjacent to each other on lower waterside slope. Existing rip rap on beginning 100' section of site 262. This site is combined with site 263.

LM Start	3.50	Rating **	М	Issue No.	40 (cont)
LM End	3.56	Issue Type +	Ma	Location *	



Photo 3 of 3 : SP\_2018\_RD2098\_244\_40\_20180305\_00056.jpg



N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01A Cross Levee	Right	0.53	03/15/2018 03/15/2018	Keith Millard

LM Start	0.00	Rating **	М	Issue No.	1		
LM End	0.52	Issue Type +	Ma	Location *	LS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory		Start		End			
Item	Vegetatio	n		38.2773	82 °	38.275722 °	
пеш				-121.6962	70°	-121.705675 °	
DWR ID DWR_RD2098_01A_s _ 2017_1							
Comment Code							

V2 : Remove the wild growth other than native grasses from the levee slopes.

## Inspector Comment

Remove the wild grasses other than native from the levee slope.



RD 2098 1A Looking upstream from levee mile 0.00-0.52 landside slope.

LM Start	0.00	Rating **	М	Issue No.		2
LM End	0.52	Issue Type +	Ма	Location *	cation * WS	
Catagori Earthen Levee				GPS Latitude/Longitude		
Category		Start		End		
Item	Vegetatio	n		38.2773	82 °	38.275722°
iteiii				-121.6962	70°	-121.705675 °
DWR ID DWR_RD2098_01A_s _ 2017_2						

## Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

## Inspector Comment

Remove the wild grasses other than native from the levee section.

## Photo 1 of 1: SP\_2018\_RD2098\_245\_2\_20180315\_00002.jpg



Thick vegetation on waterside slope.

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	03/15/2018 03/15/2018	Keith Millard

LM Start	5.30	Rating **	М	Issue No.	8	
LM End	6.16	Issue Type +	Ma	Location *	LS	
Earthen Levee				GPS La	atitud	e/Longitude
Category	ategory				Start	
Item	Vegetatio	n		38.2757	57°	38.284800
item				-121.7058	18 °	-121.715200
DWR ID DWR_RD2098_02_s _ 2017_8						
Comment Code						

V2 : Remove the wild growth other than native grasses from the levee slopes.

## Inspector Comment

Remove the wild weed growth from the landside levee slope and berm.



RD 2098 Unit 2 Levee mile 5.30-7.14 wild growth on the landside slope.

LM Start	5.30	<b>5.30</b> Rating ** M				9	
LM End	6.16	Issue Type +	Ma	Location *		WS	
Earthen Levee				GPS Latitude/Longitude			
Category						End	
Item	Vegetatio	n		38.2757	57°	38.284800 °	
item				-121.7058	18 °	-121.715200 °	
DWR ID DWR_RD2098_02_s _ 2017_9							
		_					

## Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

## Inspector Comment

Remove the wild weed growth from the waterside levee slope.

## Photo 1 of 1: SP\_2018\_RD2098\_246\_9\_20180305\_00003.jpg



RD 2098 Unit 2 levee mile 5.30- 7.14 waterside levee slope and shoulder.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Oh : Design & System Obsole

Ob : Design & System Obsolescence En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	03/15/2018 03/15/2018	Keith Millard

LM Start	5.88	Rating **	М	Issue No.	ue No. 11		
LM End	5.88	Issue Type +	Ма	Location *		WS	
Category	evee		GPS La	atitud	le/Longitude		
Calegory				Start		End	
Item	Erosion /	Erosion / Bank Caving			46°	38.282946 °	
item				-121.7109	02 °	-121.710902 °	
DWR ID	DWR_RD2	098_02_s _ 201	8_11				
Comment Code							
E1 : Note and monitor erosion site.							

## Inspector Comment

This waterside slump site is not new, and is somewhat protected by riprap and thich brushy vegetation, but it has the potential to erode into crown during high water with a strong south wind. It currently has a twofoot vertical scarp at the levee shoulder. It should be monitored and considered for repair.



Monitor slumping on waterside slope.

LM Start	6.12	Rating **	М	Issue No.		12
LM End	6.12	Issue Type +	Ma	Location *		LS
Category	evee	GPS Latitude/Longitude				
Calegory				Start		End
Item	Encroach	38.2843	48°	38.284348 °		
пеш				-121.7146	82 °	-121.714682 °
DWR ID	DWR_RD2	098_02_f _ 201	6_12			
Comment Code						
TR : Tree or limb						

## Inspector Comment

Remove this nut tree from the landside slope.

No Photos

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	03/15/2018 03/15/2018	Keith Millard

LM Start	6.46	Rating **	A/W	Issue No.	15	
LM End	6.46	Issue Type +	Ma	Location *		
Supplemental				GPS Latitude/Longitude		
Calegory	Category					End
Item	2017 Stor	m Damage		38.28870	00°	38.288800°
пеш				-121.71700	00°	-121.717000 °
DWR ID DWR_RD2098_02_f _ 2017_15						·
	Comment Code					

## Inspector Comment

Levee Evaluation Comments

Description: The damage consists of scour of the lower and mid

waterside levee slope.

Site ID No:440

Site Designation:LMA-267 Repair Type: Erosion Rating:Area of Concern Field Date:7/25/2017

Notes: Sloughing on waterside slope due to toe erosion.

LM Start	6.46	Rating **	A/W	Issue No.	15 (cont)
I M End	6.46	Issue Type +	Ma	Location *	



Photo 2 of 3: SP\_2018\_RD2098\_246\_15\_20180305\_00009.jpg



## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	03/15/2018 03/15/2018	Keith Millard

LM Start	6.46	Rating **	A/W	Issue No.	15 (cont)		
LM End	6.46	Issue Type +	Ma	Location *			
Category	ental	GPS Latitude/Longitude					
Calegory	Category					End	
Item	2017 Stor	m Damage		38.2887	00°	38.288800°	
пеш				-121.7170	00°	-121.717000 °	
DWR ID DWR_RD2098_02_f _ 2017_15							
Comment Code							

## Inspector Comment

Levee Evaluation Comments

Description:The damage consists of scour of the lower and mid

waterside levee slope. Site ID No:440

Site Designation:LMA-267 Repair Type: Erosion Rating:Area of Concern Field Date:7/25/2017

Notes: Sloughing on waterside slope due to toe erosion.



LM Start	6.47	Rating **	A/W	Issue No.	sue No. 17			
LM End	6.48	Issue Type +	Ма	Location *				
Category				GPS Latitude/Longitude				
Calegory	Category					End		
Item	2017 Stor	m Damage		38.28890	00°	38.289000	0	
пеш				-121.71700	00°	-121.717000	0	
DWR ID	DWR_RD2	098_02_f _ 201	7_17		·			

## Comment Code

#### Inspector Comment

Levee Evaluation Comments

Description: The damage consists of scour and sloughing of the lower and mid waterside levee slope.

Site ID No:441

Site Designation:LMA-268 Repair Type: Erosion Rating:Area of Concern Field Date:7/25/2017

Notes: Sloughing on waterside slope due to toe erosion.



\* Location

LS: Land Side N/A: Not Applicable

WS: Water Side

CR: Crown

\* Rating

A: Acceptable

M: Minimally Acceptable

U: Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	03/15/2018 03/15/2018	Keith Millard

LM Start	6.47	Rating **	A/W	Issue No.	17 (cont)	
LM End	6.48	Issue Type +	Ма	Location *		
Category				GPS Latitude/Longitude		
Calegory	alegory .					End
Item	2017 Stor	m Damage		38.2889	00°	38.289000°
пеш				-121.7170	00°	-121.717000 °
DWR ID DWR_RD2098_02_f _ 2017_17						
Comment Code						

## Inspector Comment

Levee Evaluation Comments

Description: The damage consists of scour and sloughing of the lower and mid waterside levee slope.

Site ID No:441

Site Designation:LMA-268 Repair Type: Erosion Rating:Area of Concern Field Date:7/25/2017

Notes: Sloughing on waterside slope due to toe erosion.

LM Start	6.47	Rating **	A/W	Issue No.	17 (cont)
LM End	6.48	Issue Type +	Ma	Location *	



Photo 3 of 3: SP\_2018\_RD2098\_246\_17\_20180305\_00014.jpg



## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	03/15/2018 03/15/2018	Keith Millard

LM Start	6.48	Rating **	М	Issue No.		7	
LM End	6.74	Issue Type +	Ma	Location *		LS	
Category	.evee	GPS Latitude/Longitude					
Calegory				Start		End	
Item	Vegetatio	n		38.2890	80°	38.292467 °	
пеш				-121.7168	52 °	-121.716140 °	
DWR ID	DWR_RD2	2098_02_f _ 201	7_7				
Comment Code							
V2 : Remove the wild growth other than native grasses from the levee							

slopes.

Inspector Comment

No Photos



#### Rating \*\* A/W Issue No. 18 LM Start 6.64 LM End 6.65 Issue Type + Location \* Supplemental GPS Latitude/Longitude Category Start End 2017 Storm Damage 38.291300° 38.291400 -121.716100° -121.716000 ° DWR ID DWR\_RD2098\_02\_f \_ 2017\_18 Comment Code

## Inspector Comment

Levee Evaluation Comments

Description: The damage consists of scour, cracking, instability, and sloughing of the waterside levee slope.

Site ID No:442

Site Designation:LMA-269 Repair Type: Erosion Rating:Serious Field Date:7/25/2017

Notes: Two sloughing sections along waterside slope due to toe erosion.

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	03/15/2018 03/15/2018	Keith Millard

LM Start	6.64	Rating **	A/W	Issue No.		18 (cont)
LM End	6.65	Issue Type +	Ma	Location *		
Category	ental	GPS Latitude/Longitude				
Calegory	Category					End
Item	2017 Stor	m Damage		38.2913	° 00	38.291400°
пеш				-121.7161	° 00	-121.716000°
DWR ID DWR_RD2098_02_f _ 2017_18						
Comment Code						

## Inspector Comment

Levee Evaluation Comments

Description:The damage consists of scour, cracking, instability, and sloughing of the waterside levee slope.

Site ID No:442

Site Designation:LMA-269 Repair Type: Erosion Rating:Serious Field Date:7/25/2017

Notes: Two sloughing sections along waterside slope due to toe erosion.

LM Start	6.64	Rating **	A/W	Issue No.	18 (cont)
LM End	6.65	Issue Type +	Ma	Location *	



Photo 3 of 3: SP\_2018\_RD2098\_246\_18\_20180305\_00017.jpg



N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	03/15/2018 03/15/2018	Keith Millard

LM Start	6.71	Rating **	М	Issue No.	22		
LM End	6.71	Issue Type +	Ма	Location *			
Category	ental	GPS Latitude/Longitude					
Calegory			Start		End		
Item	DWR UCI	IP LMA Respo	onsibility	38.2921	94°	38.292194°	
пеш				-121.7158	53 °	-121.715853 °	
DWR ID							
Comment Code							

## Inspector Comment

FS\_ID:33784 DS\_ID:20976 EP\_NO: 10172

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Headwalls on WS toe failing at outlet. It is unclear if these were permanent installations or something that was installed as a temporary fix.

FIELD\_STRUCT\_DESC: 1 of 2: 48-inch corrugated metal drainage pipe through the levee, 29 feet below the crown. Two slide gates in a 7-foot-diameter corrugated metal pipe (CMP) riser on the waterside (WS) slope. (two 48-inch [HLM 6.75] authorized under Automatic Board Order (ABO) issued as Permit No. 10172, 1974 - Moresco Brothers). [Additional Reference(s): DWR Levee Log, 2003. USACE Sacramento

O&M Manual 109, April 1962, (HLM 6.75)].

FS Date: 3/18/2014

LM Start	6.71	Rating **	М	Issue No.	22 (cont)
LM End	6.71	Issue Type +	Ma	Location *	

## Photo 1 of 3: UCIP\_SP\_2018\_33784\_61162.jpg



Two slide gates in 7-foot diameter CMP riser on waterward slope.

## Photo 2 of 3: UCIP\_SP\_2018\_33784\_61161.jpg



Inlet not visible on LS toe.

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	03/15/2018 03/15/2018	Keith Millard

LM Start	6.71	Rating **	М	Issue No.		22 (cont)	
LM End	6.71	Issue Type +	Ma	Location *			
Category	Suppleme	ental		GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	IP LMA Respo	onsibility	38.2921	94°	38.292194°	
пеш				-121.7158	53°	-121.715853 °	
DWR ID							
	Comment Code						

## Inspector Comment

FS\_ID:33784 DS ID:20976 EP\_NO: 10172

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Headwalls on WS toe failing at outlet. It is unclear if these were permanent installations or something that was installed as a temporary fix.

FIELD\_STRUCT\_DESC: 1 of 2: 48-inch corrugated metal drainage pipe through the levee, 29 feet below the crown. Two slide gates in a 7-footdiameter corrugated metal pipe (CMP) riser on the waterside (WS) slope. (two 48-inch [HLM 6.75] authorized under Automatic Board Order (ABO) issued as Permit No. 10172, 1974 - Moresco Brothers).

[Additional Reference(s): DWR Levee Log, 2003. USACE Sacramento

O&M Manual 109, April 1962, (HLM 6.75)]

FS Date: 3/18/2014



View inside CMP riser on WS shoulder.

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	03/15/2018 03/15/2018	Keith Millard

LM Start	6.72	Rating **	М	Issue No.		23
LM End	6.72	Issue Type +	Ма	Location *		
Category	Suppleme	ental		GPS La	titud	le/Longitude
Calegory			Start		End	
Item	DWR UCI	P LMA Respo	onsibility	38.29223	4 °	38.292234 °
пеш				-121.71587	'5	-121.715875 °
DWR ID						

# Comment Code

## Inspector Comment

FS\_ID:32285 DS\_ID:20961 EP\_NO: 10172

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Headwalls at WS toe failing. It is uncertain if these retaining walls were a permanent fixture or a temporary fix that failed. FIELD\_STRUCT\_DESC: 2 of 2: 48-inch corrugated metal drainage pipe through the levee, 29 feet below the crown. Two slide gates in a 7-foot-diameter corrugated metal pipe (CMP) riser on the waterside (WS) slope. (two 48-inch pipes [HLM 6.75] authorized under Automatic Board Order (ABO) issued as Permit No. 10172, 1974 - Moresco Brothers). [Additional Reference(s): DWR Levee Log, 2003. USACE Sacramento O&M Manual 109, April 1962, (HLM 6.75)].

FS Date: 3/18/2014

LM Start	6.72	Rating **	М	Issue No.	23 (cont)
LM End	6.72	Issue Type +	Ma	Location *	

## Photo 1 of 3: UCIP\_SP\_2018\_32285\_58749.jpg



Inlet not visible on LS toe.

## Photo 2 of 3: UCIP\_SP\_2018\_32285\_58748.jpg



7-foot diameter CMP riser with two slide gates inside.

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	03/15/2018 03/15/2018	Keith Millard

LM Start	6.72	Rating **	М	Issue No.		23 (cont)	
LM End	6.72	Issue Type +	Ма	Location *			
Category	Suppleme	ental		GPS Lat	ituc	le/Longitude	
Calegory			Start		End		
Item	DWR UCI	P LMA Respo	nsibility	38.29223	4 °	38.292234	0
пеш				-121.71587	5 °	-121.715875	0
DWR ID							

## Comment Code

#### Inspector Comment

FS\_ID:32285 DS ID:20961 EP\_NO: 10172

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Headwalls at WS toe failing. It is uncertain if these retaining walls were a permanent fixture or a temporary fix that failed. FIELD STRUCT DESC: 2 of 2: 48-inch corrugated metal drainage pipe through the levee, 29 feet below the crown. Two slide gates in a 7-footdiameter corrugated metal pipe (CMP) riser on the waterside (WS) slope. (two 48-inch pipes [HLM 6.75] authorized under Automatic Board Order (ABO) issued as Permit No. 10172, 1974 - Moresco Brothers). [Additional Reference(s): DWR Levee Log, 2003. USACE Sacramento O&M Manual 109, April 1962, (HLM 6.75)].

FS Date: 3/18/2014



7-foot diameter CMP riser with two slide gates inside.

LM Start	6.74	Rating **	A/W	Issue No.		19	
LM End	6.75	Issue Type +	Ma	Location *			
Category	Suppleme	ental		GPS La	atitud	le/Longitude	
Category				Start		End	
Item	2017 Stor	m Damage		38.2925	00°	38.292600	0
Item				-121.7161	00°	-121.716200	0
DWR ID	DWR_RD2	098_02_f _ 201	7_19				

## Inspector Comment

Comment Code

Levee Evaluation Comments

Description: The damage consists of scour and sloughing of the

landside levee slope.

Site ID No:443

Site Designation:LMA-270 Repair Type: Stability Rating:Area of Concern Field Date:7/25/2017

Notes: Sloughing on crown into upper portion of landside levee slope.





## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	03/15/2018 03/15/2018	Keith Millard

LM Start	6.74	Rating **	A/W	Issue No.	19 (cont)		
LM End	6.75	Issue Type +	Ма	Location *			
Category	Suppleme	ental	GPS La	titude/Longitude			
Calegory						End	
Item	2017 Stor	m Damage		38.29250	o°	38.292600	0
item				-121.71610	o°	-121.716200	0
DWR ID	DWR_RD2	098_02_f _ 201	7_19				
		Comn	nent Coc	le			

## Inspector Comment

Levee Evaluation Comments

Description: The damage consists of scour and sloughing of the

landside levee slope. Site ID No:443

Site Designation:LMA-270 Repair Type: Stability Rating:Area of Concern Field Date:7/25/2017

Notes: Sloughing on crown into upper portion of landside levee slope.

LM Start	6.74	Rating **	A/W	Issue No.	19 (cont)
LM End	6.75	Issue Type +	Ma	Location *	



Photo 3 of 3: SP\_2018\_RD2098\_246\_19\_20180305\_00020.jpg



N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	03/15/2018 03/15/2018	Keith Millard

LM Start	6.77	Rating **	A/W	Issue No.		20	
LM End	6.80	Issue Type +	Ma	Location *			
Category	Supplemental			GPS Latitude/Longitude			
				Start		End	
Item	2017 Storm Damage			38.29290	00°	38.293000°	
				-121.71660	00°	-121.717000°	
DWR ID	DWR_RD2098_02_f _ 2017_20						
Comment Code							

#### Inspector Comment

Levee Evaluation Comments

Description: The damage consists of cracking of the levee crest.

Site ID No:444

Site Designation:LMA-271 Repair Type: Erosion Rating:Area of Concern Field Date:7/25/2017

Notes: Two combined sloughing locations (271 and 272) within levee crown into waterside and landside slopes. Sloughing on landside slope bulges into ditch at toe.

LM Start	6.77	Rating **	A/W	Issue No.	20 (cont)
LM End	6.80	Issue Type +	Ma	Location *	



Photo 2 of 4 : SP\_2018\_RD2098\_246\_20\_20180305\_00022.jpg



N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	03/15/2018 03/15/2018	Keith Millard

LM Start	6.77	Rating **	A/W	Issue No.		20 (cont)
LM End	6.80	Issue Type +	Ma	Location *		
Category	Supplemental				tituc	le/Longitude
Calegory		Start		End		
Item	2017 Stor	m Damage		38.29290	00°	38.293000°
пеш				-121.71660	00°	-121.717000 °
DWR ID	DWR_RD2	098_02_f _ 201	7_20			
Comment Code						

#### Inspector Comment

Levee Evaluation Comments

Description: The damage consists of cracking of the levee crest.

Site ID No:444

Site Designation:LMA-271 Repair Type: Erosion Rating:Area of Concern Field Date:7/25/2017

Notes: Two combined sloughing locations (271 and 272) within levee crown into waterside and landside slopes. Sloughing on landside slope bulges into ditch at toe.

LM Start	6.77	Rating **	A/W	Issue No.	20 (cont)
LM End	6.80	Issue Type +	Ma	Location *	



Photo 4 of 4: SP\_2018\_RD2098\_246\_20\_20180305\_00024.jpg



10/26/17: Notice depression in crown road and slumping toward the left/landside (bulge at toe of levee).

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	03/15/2018 03/15/2018	Keith Millard

LM Start	7.14	Rating **	С	Issue No.		5	
LM End	7.14	Issue Type +	Ma	Location *		CR	
Catagony	Category Earthen Levee				atitud	le/Longitude	
Calegory						End	
Item	Repair Gates			38.2929	62°	38.292962	0
пеш				-121.7233	12°	-121.723312	0
DWR ID	DWR_RD2	098_02_f _ 201	3_5				
		Comn	nent Coo	le			
	Inspector Comment						

Gate damage, make repairs to this gate. This gate could cause injury to someone.

LM Start	7.24	Rating **	A/W	Issue No.		25
LM End	7.24	Issue Type +	Ма	Location *		
Category	Suppleme	ental		GPS La	tituc	le/Longitude
Calegory				Start		End
Item	DWR UCI	P LMA Respo	nsibility	38.29374	1°	38.293741 °
пеш				-121.72478	7°	-121.724787 °
DWR ID						

### Comment Code

#### Inspector Comment

FS\_ID:32303 DS\_ID:20978 EP\_NO: 10171

Repair Type: No Action Needed

Crossing Status: Found

UCIP Comments: 09/14/2017 Permit review indicates this 24-inch pipe was authorized as an irrigation and drainage pipe under ABO issued as Permit No. 10171, structure description was updated. Structure type logged as drainage. (DWR UCIP - O. Magana)

FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch steel dual-purpose irrigation and drainage pipe through the levee, 4.5 feet below the crown. Corrugated metal cutoff wall around the pipe. Pipe has welded steel plate over end on the landside (LS) slope and is not visible on the waterside (WS) slope. (24-inch pipe [HLM 7.23] authorized under Automatic Board Order (ABO) issued as Permit No. 10171, 1974 -Glenn A. Bowlsbey). [Additional Reference(s): DWR Levee Log, 2003. USACE Sacramento O&M Manual 109, April 1962, (HLM 7.28)]. FS Date: 3/18/2014 7:07:14 AM

No Photos

Photo 1 of 3: UCIP\_SP\_2018\_32303\_58782.jpg



Pipe visible under new pipe on LS slope.

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	03/15/2018 03/15/2018	Keith Millard

LM Start	<b>7.24</b> Rating ** A/W			Issue No.		25 (cont)
LM End	7.24	Issue Type +	Ma	Location *		
Category Supplemental				GPS La	titud	le/Longitude
				Start		End
Item	DWR UCI	P LMA Respo	onsibility	38.2937	41 °	38.293741 °
item				-121.72478	87 °	-121.724787°
DWR ID						
Comment Code						

#### Inspector Comment

FS\_ID:32303 DS\_ID:20978 EP\_NO: 10171

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 09/14/2017 Permit review indicates this 24-inch pipe was authorized as an irrigation and drainage pipe under ABO issued as Permit No. 10171, structure description was updated. Structure type

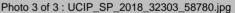
logged as drainage. (DWR UCIP - O. Magana)

FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch steel dual-purpose irrigation and drainage pipe through the levee, 4.5 feet below the crown. Corrugated metal cutoff wall around the pipe. Pipe has welded steel plate over end on the landside (LS) slope and is not visible on the waterside (WS) slope. (24-inch pipe [HLM 7.23] authorized under Automatic Board Order (ABO) issued as Permit No. 10171, 1974 - Glenn A. Bowlsbey). [Additional Reference(s): DWR Levee Log, 2003. USACE Sacramento O&M Manual 109, April 1962, (HLM 7.28)]. FS Date: 3/18/2014 7:07:14 AM

LM Start	7.24	Rating **	A/W	Issue No.	25 (cont)
LM End	7.24	Issue Type +	Ma	Location *	



Pipe visible under new pipe on LS slope.





Welded steel cap over LS end of pipe.

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	03/15/2018 03/15/2018	Keith Millard

LM Start	7.19	Rating **	A/W	Issue No.		2		
LM End	7.31	Issue Type +	Ma	Location *	LS			
Category	Earthen L	Levee GPS Latitude/Longit				e/Longitude		
Calegory			Start		End			
Item	Vegetatio	n		38.29317	3°	38.294705 °		
пеш			-121.72422	°	-121.725130 °			
DWR ID	DWR_RD2	098_03_f _ 201						
	0 10 1							

#### Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

#### Inspector Comment

Landside vegetation is acceptable; continue to maintain.

LM Start	7.19	Rating **	A/W	Issue No.	2 (cont)
LM End	7.31	Issue Type +	Ma	Location *	LS



RD 2098 Looking downstream from levee mile 7.19-7.31

#### Photo 2 of 2: SP\_2018\_RD2098\_247\_2\_20180305\_00004.jpg



RD 2098 Looking downstream from levee mile 7.19 landside slope.

LM Start	7.19	Rating **	A/W	Issue No.	8			
LM End	7.31	Issue Type +	Ма	Location *	WS			
Category Earthen Levee			GPS La	titud	e/Longitude			
Calegory		Start		End				
Item	Vegetatio	n		38.2931	78°	38.294705		
пеш				-121.7242	15 °	-121.725133		
DWR ID DWR_RD2098_03_f _ 2016_8								
	Comment Code							

#### Comment Cod

V2 : Remove the wild growth other than native grasses from the levee slopes.

#### Inspector Comment

Waterside vegetation is acceptable; continue to maintain.

#### Photo 1 of 1: SP\_2018\_RD2098\_247\_8\_20180305\_00006.jpg



RD 2098 Unit 3 levee mile 7.19-7.31 waterside slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	03/15/2018 03/15/2018	Keith Millard

LM Start	7.33	Rating **	М	Issue No.	3			
LM End	7.72	Issue Type +	Ma	Location *	WS			
Category			GPS La	atitud	e/Longitude			
Calegory				Start		End		
2015 USACE Erosion Survey,			38.294858 °		38.299606 °			
пеш	DRAFT			-121.7254	33 °	-121.728621 °		
DWR ID	DWR_RD2	098_03_f _ 201	6_3					
		Comn	nent Cod	le				
In an a story Common and								

Inspector Comment

2011 - Large vertical erosion pockets and bank slumping. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: HAS\_7-9\_L]

No Photos

No Photos

LM Start	7.37	Rating **	A/W	Issue No.		11
LM End	8.22	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS Latitude/Longitude		e/Longitude
Calegory				Start		End
Item	Vegetatio	n		38.2954	18°	38.305932 °
пеш				-121.7256	57°	-121.730000 °
DWR ID DWR_RD2098_03_f _ 2016_11						
		Comn	ant Coc	lo.		

Comment Code

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Waterside vegetation is acceptable; continue to maintain.

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

# Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	03/15/2018 03/15/2018	Keith Millard

LM Start	7.42	Rating **	С	Issue No.		12		
LM End	7.64	Issue Type +	Ma	Location *		CR		
Category	Earthen Levee				atitud	e/Longitude		
Category				Start		End		
Crown Surface / Depressions /			ssions /	38.2959	35°	38.298372		
пеш	Rutting	Rutting -121.726343		43°	-121.728678			
DWR ID	DWR ID DWR_RD2098_03_s _ 2017_12							
		Comn	nent Coo	le				
C2 : Repai	r depressi	ons or ruts in	the crow	n or slope.				
		Inspecto	or Comm	nent				
Gravel sur	Gravel surface is stabile and smooth.							

No Photos

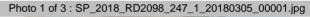
LM Start	7.51	Rating **	М	Issue No.	1				
LM End	7.51	Issue Type +	Ма	Location *		LS			
Category Earthen Levee			GPS Latitude/Longitude						
Calegory				Start		End			
Item	Slope Sta	bility		38.296846 ° 38.2		38.296846°			
пеш				-121.7275	46 °	-121.727546°			
DWR ID DWR_RD2098_03_f _ 2016_1									
	Comment Code								

S2: Repair the levee slope damaged by foot traffic and prevent access where possible.

#### Inspector Comment

Make the repairs to the erosion site listed.

LM Start	7.51	Rating **	М	Issue No.	1 (cont)
LM End	7.51	Issue Type +	Ma	Location *	LS





Close up. Looking upstream.

Photo 2 of 3: SP\_2018\_RD2098\_247\_1\_20180305\_00002.jpg



Looking downstream.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	03/15/2018 03/15/2018	Keith Millard

LM Start	7.51	Rating **	М	Issue No.	1 (cont)				
LM End	7.51	Issue Type +	Ma	Location *		LS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Calegory			Start		End				
Slope Stability			38.2968	846°	38.296846 °				
пеш				-121.727546		-121.727546 °			
DWR ID	DWR ID DWR_RD2098_03_f _ 2016_1								
		Comn	nent Cod	de					
S2 : Repai where pos		slope damag	jed by fo	ot traffic an	d pr	event access			
		Inspecto	or Comm	nent					
Make the repairs to the erosion site listed.									



Erosion site on 03/15/18.

LM Start	7.61	Rating **	М	Issue No.		10
LM End	7.62	Issue Type +	Ma	Location *		
Category				GPS Latitude/Longitude		
Calegory	Calegory					End
Item	2017 Stor	m Damage		38.2979	00°	38.298100°
item				-121.7289	00 °	-121.728900 °
DWR ID DWR_RD2098_03_f _ 2017_10						
Comment Code						

#### Inspector Comment

Levee Evaluation Comments

Description: The damage consists of sloughing of the lower and mid waterside levee slope.

Site ID No:449

Site Designation:LMA-276 Repair Type: Erosion Rating:Area of Concern Field Date:7/27/2017

Notes: Sloughing on waterside slope due to erosion at waterside toe.

Photo 1 of 3: SP\_2018\_RD2098\_247\_10\_20180305\_00007.jpg



### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	03/15/2018 03/15/2018	Keith Millard

LM Start	7.61	Rating **	М	Issue No.	10 (cont)		
LM End	7.62	Issue Type +	Ma	Location *			
Category				GPS Latitude/Longitude			
Calegory			Start		End		
Item	2017 Stor	m Damage		38.2979	00°	38.298100°	
пеш				-121.7289	00°	-121.728900 °	
DWR ID DWR_RD2098_03_f _ 2017_10						·	
Comment Code							

#### Inspector Comment

Levee Evaluation Comments

Description: The damage consists of sloughing of the lower and mid

waterside levee slope. Site ID No:449

Site Designation:LMA-276 Repair Type: Erosion Rating:Area of Concern Field Date:7/27/2017

Notes: Sloughing on waterside slope due to erosion at waterside toe.

LM Start	7.61	Rating **	M	Issue No.	10 (cont)
LM End	7.62	Issue Type +	Ma	Location *	



Photo 3 of 3: SP\_2018\_RD2098\_247\_10\_20180305\_00009.jpg



N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	03/15/2018 03/15/2018	Keith Millard

LM Start	7.63	Rating **	М	Issue No.	13		
LM End	7.64	Issue Type +	Ма	Location *			
Category				GPS Latitude/Longitude			
Calegory	Category			Start		End	
Item	2017 Stor	m Damage		38.29830	00°	38.298400 °	
item				-121.72880	00°	-121.728800 °	
DWR ID DWR_RD2098_03_f _ 2017_13							
Comment Code							

#### Inspector Comment

Levee Evaluation Comments

Description: The damage consists of scour and sloughing of the

waterside levee slope.

Site ID No:450 Site Designation:LMA-277

Repair Type: Erosion
Rating:Area of Concern
Field Date:7/27/2017

Notes: Sloughing on waterside due to waterside toe erosion.

LM Start	7.63	Rating **	М	Issue No.	13 (cont)
LM End	7.64	Issue Type +	Ma	Location *	



Photo 2 of 3: SP\_2018\_RD2098\_247\_13\_20180305\_00011.jpg



N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	03/15/2018 03/15/2018	Keith Millard

LM Start	7.63	Rating **	М	Issue No.	13 (cont)	
LM End	7.64	Issue Type +	Ma	Location *		
Category				GPS Latitude/Longitude		
Calegory						End
Item	2017 Stor	m Damage		38.2983	00°	38.298400°
пеш				-121.7288	00°	-121.728800 °
DWR ID DWR_RD2098_03_f _ 2017_13						
Comment Code						

#### Inspector Comment

Levee Evaluation Comments

Description: The damage consists of scour and sloughing of the

waterside levee slope.

Site ID No:450

Site Designation:LMA-277 Repair Type: Erosion Rating:Area of Concern Field Date:7/27/2017

Notes: Sloughing on waterside due to waterside toe erosion.



LM Start	7.66	Rating **	М	Issue No.	15			
LM End	7.68	Issue Type +	Ma	Location *				
Category Supplemental				GPS Latitude/Longitude				
				Start		End		
Itom	2017 Stor	m Damage		38.2987	00°	38.299000	0	
пеш	Item			-121.7287	00°	-121.728600	0	
DWR ID	DWR_RD2	098_03_f _ 201	7_15					
Comment Code								

## Inspector Comment

Levee Evaluation Comments

Description: The damage consists of scour and sloughing of the lower and mid waterside levee slope.

Site ID No:451

Site Designation:LMA-278 Repair Type: Erosion Rating:Area of Concern Field Date:7/27/2017

Notes: Sloughing on waterside slope due to watwrside toe erosion.



### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	03/15/2018 03/15/2018	Keith Millard

LM Start	7.66	Rating **	М	Issue No.	15 (cont)		
LM End	7.68	Issue Type +	Ма	Location *			
Category	Supplemental			GPS Latitude/Longitude			
Calegory			Start		End		
Item	2017 Stor	m Damage		38.29870	0°	38.299000°	
пеш			-			-121.728600 °	
DWR ID DWR_RD2098_03_f _ 2017_15							
Comment Code							

#### Inspector Comment

Levee Evaluation Comments

Description: The damage consists of scour and sloughing of the lower and mid waterside levee slope.

Site ID No:451

Site Designation:LMA-278 Repair Type: Erosion Rating:Area of Concern Field Date:7/27/2017

Notes: Sloughing on waterside slope due to watwrside toe erosion.

LM Start	7.66	Rating **	M	Issue No.	15 (cont)
LM End	7.68	Issue Type +	Ma	Location *	



Photo 3 of 3: SP\_2018\_RD2098\_247\_15\_20180305\_00016.jpg



N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	03/15/2018 03/15/2018	Keith Millard

LM Start	7.87	Rating **	М	Issue No.		9	
LM End	7.87	Issue Type +	Ma	Location *		WS	
Category	Earthen L	.evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Encroachments			38.3017	07°	38.301707 °	
Item				-121.728045 °		-121.728045 °	
DWR ID DWR_RD2098_03_s _ 2014_9							
		Comn	nent Cod	le			
TR : Tree	or limb						
		Inspect	or Comm	nent			
Remove th	Remove the dead tree from the waterside slope.						

No Photos

LM Start	8.07	Rating **	A/W	Issue No.		5
LM End	8.07	Issue Type +	Ma	Location *		WS
Category Earthen Levee			GPS Latitude/Longitude			
Calegory			Start		End	
Item	Cracking			38.3045	53 °	38.304553 °
пеш		-		-121.7278	53 °	-121.727853 °
DWR ID DWR_RD2098_03_f _ 2017_5						

#### Comment Code

CR1: Monitor and have inspected by geotechnical engineer.

#### Inspector Comment

Cracks in waterside shoulder parallel to levee should be monitored for additional movement. Currently up to 2 inchs wide and 50 feet long. Probed to 3.5 feet deep. Up to 1 inch of vertical offset observed on 10/26/17. No change as of 03/15/18.

### Photo 1 of 1 : SP\_2018\_RD2098\_247\_5\_20180305\_00005.jpg



View upstream of cracks in waterside shoulder.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	03/15/2018 03/15/2018	Keith Millard

LM Start	8.16	Rating **	A/W	Issue No.		17
LM End	8.16	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
Calegory						End
Item	DWR UCI	IP LMA Respo	onsibility	38.3054	62 °	38.305462
пеш				-121.7288	81 °	-121.728881
DWR ID						

### Inspector Comment

Comment Code

FS\_ID:51453 DS\_ID:20981 EP\_NO: 10174

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 12/22/2016 Crossing has been downgraded from Urgent to No Action Needed walkways on both WS and LS have been rebuilt and the WS gate has been upgraded to stainless steel where previous corrodable material was present. (O. Magana - DWR UCIP)03/19/2014 Current walkway to slidegate on WS toe does not provide safe access to operate slidegate. (W. Wylie - DWR UCIP) FIELD\_STRUCT\_DESC: 36-inch steel dual-purpose irrigation and drainage pipe through the levee, 26 feet below the crown. Two corrugated metal cutoff walls around the pipe. Walkway to the slide gate on the waterside (WS) end. Combination slide and flap gate on the landside (LS) end. 48-inch corrugated metal pipe (CMP) riser and an adjoining pump on a metal pier at the LS toe. (36-inch pipe [HLM 8.20] authorized under Automatic Board Order (ABO) issued as Permit No. 10174, 1974 - Glen A. Bowlsbey). [Additional Reference(s): DWR Levee Log, 2003. USACE Sacramento O&M Manual 109, April 1962, (HLM 8.20)]. FS Date: 12/22/2016

LM Start	8.16	Rating **	A/W	Issue No.	17 (cont)
	0.40	Inches Transport		1 4: *	



Walkway has been re-built, photo 1 of 2.



Walkway has been re-built, photo 2 of 2.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side	A : Acceptable M : Minimally Acceptable	N : Not Inspected/Rated C : Corrected	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	03/15/2018 03/15/2018	Keith Millard

LM Start	8.16	Rating **	A/W	Issue No.	17 (cont)		
LM End	8.16	Issue Type +	Ма	Location *			
Category	Supplemental			GPS Latitude/Longitude			
Calegory	egory			Start		End	
Item	DWR UC	P LMA Respo	nsibility	38.3054	62 °	38.305462 °	
item				-121.7288	81 °	-121.728881 °	
DWR ID							
Comment Code							

#### Inspector Comment

FS\_ID:51453 DS\_ID:20981 EP\_NO: 10174

FS Date: 12/22/2016

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 12/22/2016 Crossing has been downgraded from Urgent to No Action Needed walkways on both WS and LS have been rebuilt and the WS gate has been upgraded to stainless steel where previous corrodable material was present. (O. Magana - DWR UCIP)03/19/2014 Current walkway to slidegate on WS toe does not provide safe access to operate slidegate. (W. Wylie - DWR UCIP) FIELD\_STRUCT\_DESC: 36-inch steel dual-purpose irrigation and drainage pipe through the levee, 26 feet below the crown. Two corrugated metal cutoff walls around the pipe. Walkway to the slide gate on the waterside (WS) end. Combination slide and flap gate on the landside (LS) end. 48-inch corrugated metal pipe (CMP) riser and an adjoining pump on a metal pier at the LS toe. (36-inch pipe [HLM 8.20] authorized under Automatic Board Order (ABO) issued as Permit No. 10174, 1974 - Glen A. Bowlsbey). [Additional Reference(s): DWR Levee Log, 2003. USACE Sacramento O&M Manual 109, April 1962, (HLM 8.20)].



View of levee crown at pipe crossing.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type
Ma : Mainten

### Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	03/15/2018 03/15/2018	Keith Millard

LM Start	8.35	Rating **	A/W	Issue No.	18		
LM End	8.35	Issue Type +	Ма	Location *			
Catagony	Supplemental Supplemental			GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	DWR UC	IP LMA Respo	onsibility	38.3069	16°	38.306916 °	
пеш				-121.7319	84 °	-121.731984°	
DWR ID							
Comment Code							

## Inspector Comment

FS\_ID:32384 DS\_ID:20962 EP\_NO: 10174

Repair Type: No Action Needed Crossing Status: Found UCIP Comments:

FIELD\_STRUCT\_DESC: 60-inch corrugated metal drainage pipe through the levee, 25.5 feet below the crown. Walkway to the slide gates at both ends of the pipe. (Permit No. 1607, 1951 - R. F. Moore and Lorraine W. Zanetti. This pipe was retained under Automatic Board Order (ABO) issued as Permit No. 10174, 1974 - Glen A. Bowlsbey). [Additional Reference(s): DWR Levee Log, 2003. USACE Sacramento O&M Manual 109, April 1962, (HLM 8.40)].

FS Date: 3/19/2014

LM Start	8.35	Rating **	A/W	Issue No.	18 (cont)
LM End	8.35	Issue Type +	Ma	Location *	



Slide gate at LS toe.

### Photo 2 of 2: UCIP\_SP\_2018\_32384\_58882.jpg



Walkway with slide gate on WS toe.

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	03/15/2018 03/15/2018	Keith Millard

LM Start	8.36	Rating **	С	Issue No.		14	
LM End	9.11	Issue Type +	Ma	Location *		CR	
Earthen Levee			GPS Latitude/Longitude				
Category				Start		End	
Item	Vegetation			38.3069	97°	38.315668 °	
пеш	item				10°	0° -121.739773°	
DWR ID	WR ID DWR_RD2098_03_s _ 2017_14						
		Comn	nent Cod	le			
V9 : Keep	the crown	roadway free	of veget	ation.			
		Inspecto	or Comm	nent			
Gravel sur	Gravel surface is stabile and smooth.						

No Photos

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	03/15/2018 03/15/2018	Keith Millard

LM Start	9.34	Rating **	С	Issue No.		13		
LM End	9.60	Issue Type +	Ma	Location *	CR			
Category Earthen Levee			GPS La	atitud	e/Longitude			
Calegory		Start		End				
Item		Crown Surface / Depressions /			20°	38.322600		
пеш	Rutting			-121.740065 °		5° -121.740132		
DWR ID	DWR_RD2	098_04_s _ 201	7_13					
		Comn	nent Cod	le				
C2 : Repai	r depressi	ons or ruts in	the crow	n or slope.				
Inspector Comment								
Gravel surface is stabile and smooth.								

No Photos

LM Start	9.68	Rating **	М	Issue No.	8			
LM End	9.73	Issue Type +	Ma	Location *	WS			
Category	Earthen Levee			GPS La	le/Longitude			
Calegory				Start		End		
Item	Erosion / Bank Caving			38.3237	49°	38.324467 °		
item			-121.740148 °		-121.740155 °			
DWR ID	DWR_RD2	4_8						
Comment Code								
E1 : Note	and monito	or erosion site						
		Inspecto	or Comm	nent				
1 -								

Several areas of scalloped erosion at waterside toe. Should be



Several areas of scalloped erosion at waterside toe. Largest area is visible in distance in this photo.

monitored.

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	03/15/2018 03/15/2018	Keith Millard

LM Start	9.73	Rating **	С	Issue No.		14	
LM End	9.77	Issue Type +	Ма	Location *	CR		
Category	Cotogon Earthen Levee			GPS La	atitud	e/Longitude	
Calegory			Start		End		
Item		Crown Surface / Depressions /			30°	38.325085°	
пеш	Rutting			-121.7401	37°	-121.740128 °	
DWR ID	DWR_RD2	098_04_s _ 201	7_14				
		Comn	nent Cod	le			
C2 : Repai	r depressi	ons or ruts in	the crow	n or slope.			
		Inchacte	or Comm	ont			
	Inspector Comment						
Gravel surface is stabile and smooth.							

No Photos

LM Start	10.02	Rating **	A/W	Issue No.		17	
LM End	10.02	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS Latitude/Longitude				
Calegory		Start		End			
Item	Slope Sta	Slope Stability			88°	38.328438	0
пеш				-121.74061	7°	-121.740612	0
DWR ID	DWR_RD2						
		_					

### Comment Code

S2: Repair the levee slope damaged by foot traffic and prevent access where possible.

### Inspector Comment

Sloughing landside slope has been temporarily repaired at this specific location, but this area shows cracks along shoulder and should continue to be monitored.

### Photo 1 of 1: SP\_2018\_RD2098\_248\_17\_20180315\_00021.jpg



Slumping landside slope should be monitored and repaited as needed.